



ARDEX K 220

Professional Commercial Floor Levelling and Smoothing Compound

Quick drying, walkable after 2-3 hours

Easy to install – 2mm to 20mm in one application

Suitable for residential and commercial applications

Very low odour – ideal for enclosed environments

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DESCRIPTION

ARDEX K 220 is a levelling and smoothing compound designed to level and smooth internal sub-floors prior to applying floor finishes.

SUBSTRATES

New and existing concrete, ARDEX A38, ARDEX A48, ARDEX K900BF.

Substrates with special requirements (Contact Ardex Technical Services or view relevant Technical Bulletin online) - Moisture vulnerable concrete, terrazzo, concrete subfloors with electric under floor heating, lightweight autoclave concrete.

SURFACE PREPARATION

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminant.

Mechanically clean the floor using recommended preparation methods such as shot blasting, scarifying, diamond grinding, shaving or other suitable methods to provide a roughened, clean, sound, solid and open porous surface. Acid etching is not an acceptable method of cleaning the subfloor. Do not use solvents or sweeping compounds. Subfloors must be dry (AS 1884) and properly primed for successful installation. Subfloor temperatures must be a minimum of 10°C.

PRIMING

Use ARDEX P 51 over standard concrete floors prior to the installation of ARDEX levelling compounds. Mix 1 part ARDEX P 51 with 2 parts water and apply evenly using a bristle broom. Do not use paint rollers, mops, or spray equipment. Do not leave any bare spots. Brush off all puddles of excess primer. Allow to dry to a thin, clear film (min 3 hours, max 24 hours). Very absorbent concrete may require two applications of primer to avoid pinholes and bubbling in the levelling compound. In such cases, make the initial coat 1 part ARDEX P 51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX P 51 diluted with 1 part water. Allow to dry to a thin, clear film (min 3 hours, max 24 hours).

Use ARDEX P 82 for non-porous substrates. Mix part A (red) with part B (white) and apply with a short-nap or sponge paint roller, leaving a thin transparent pink coat of primer no heavier than a coat of paint. Do not leave any bare spots. Roll off any areas of excess primer. Allow to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours). ARDEX P 82 must be applied in a thin layer within 1 hour of mixing. Refer to the Mixing Ratio

section for adjustment of mix design when using ARDEX P 82 under ARDEX K 220.

Note: Low subfloor temperatures and/or high ambient humidity require longer drying time for ARDEX primers. Do not install levelling compounds until primers have dried thoroughly.

MIXING

ARDEX floor levelling products react and harden quickly when mixed with water. Thorough mixing in the shortest possible time is essential to ensure a lump free mortar. Always mix the powder into the water. The most efficient method of mixing is by using an ARDEX mixing paddle and a heavy duty electric drill (650rpm). Normal mixing time of a 20kg bag is 2 to 3 minutes. Concrete mixers and hand mixing are not suitable methods of mixing. To 4.5 litres of water, add the ARDEX K 220 (20kg) whilst mixing thoroughly.

MANUAL INSTALLATION

Pour the mixed ARDEX K 220 onto the prepared subfloor and spread in place using the ARDEX stand-up spreader or ARDEX hand trowel. Use the ARDEX gauging tool with height adjustment to obtain an even thickness. Use the ARDEX smoother for smoothing, featheredging and touch up. Do not rework the ARDEX K 220 after 10 minutes. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX K 220.

PUMPING INSTALLATION

For ease and efficiency of application, ARDEX K 220 can be pumped with an ARDEX approved pump

SPECIFIC APPLICATIONS

ARDEX K 220 is not designed as a suitable wear surface. ARDEX K 220 can be used over heated subfloors. For this application, use in conjunction with ARDEX E 25 resilient emulsion. Reduce the mixing water to 3.5 litres and add 1.6 litres of ARDEX E 25. Contact ARDEX Technical Services for detailed information on these types of applications. For areas subject to heavy traffic and heavy loads, such as supermarkets, extended times must be allowed before the floor is subjected to highly loaded trolleys.

THICKNESS

ARDEX K 220 can be applied from 2 – 20mm in one application without aggregate. For areas requiring a thickness over 20mm. K 220 can be applied to 30mm in one application when used with aggregate.

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DRYING - HARDENING

Drying time is dependent on jobsite temperature, humidity, installation thickness and floor covering type.

(Based on 23°C and 50% RH.) Walkable from 2-3 hours. Suitable for tiling once walkable.

Conventionally laid carpet, floating floors and direct stick applications such as vinyl flooring after 24 hours.

ARDEX K 220 can also be used under direct stick timber flooring at a minimum of 3mm with an approximate drying time of 72 hours

COVERAGE

Approximately 1.7kg powder/mm/m². A 20kg bag will cover approximately 4m² at 3mm thickness.

MIXING RATIO

4.5L water/20kg powder.

TECHNICAL DATA

Bulk density of powder 1.2kg/L

Weight of fresh mortar 2.0kg/L

Compressive Strength

After 1 day 17MPa

After 7 days 25MPa

After 28 days 30MPa

Tensile Bending Strength

After 1 day 4MPa

After 7 days 8MPa

After 28 days 10MPa

PACKAGING

20kg bag

SHELF LIFE

ARDEX K 220 has a shelf life of 12 months if stored in dry conditions in unopened packaging at 23°C and 50% relative humidity.

SAFETY DATA

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully and recycle where possible. Keep out of the reach of children. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at www.ardexaustralia.com

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GUARANTEE

Ardex Australia Pty Ltd (“we” or “us”) guarantees this product (“our goods”) is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (Ardex Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a “consumer” under the Australian Consumer Law and to that extent you need to be aware that: “Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure”.

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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This datasheet was issued in October 2019 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.